



Product Overview

This chapter consists of the following primary sections:

- [Cisco 7600 Router Manager Software Overview](#)
- [Supported Hardware](#)
- [Supported Software](#)

The Cisco 7600 Router Manager software manages and monitors Cisco 7600 series internet routers using Cisco Element Management Framework (Cisco EMF), version 3.2. The Cisco 7600 Router Manager provides standard element management functionality, such as fault, configuration, accounting, performance, and security (FCAPS).

Cisco 7600 Router Manager Software Overview

The Cisco 7600 Router Manager software adds custom windows and modeling behavior to the standard Cisco EMF system to provide management of the Cisco 7600 series internet routers.

The Cisco 7600 Router Manager helps network administrators manage Cisco 7600 series internet routers by eliminating the need to have Simple Network Management Protocol (SNMP) and a detailed knowledge of the Cisco IOS or Catalyst OS required commands. The Cisco 7600 Router Manager also helps simplify the deployment process for the Cisco 7600 series internet routers.

Multiple Element Managers can be installed onto a single Cisco EMF server, which allows multi-device and multi-vendor management from a single system.

**Note**

Refer to the *Cisco Element Management Framework User Guide* for additional information.

Software Features

The Cisco 7600 Router Manager provides the following features:

- Manual predeployment of Cisco 7600 series internet routers and subcomponents in the management system before actual installation. The system can automatically detect predeployed objects and begin management when they are installed and configured
- Autodiscovery feature that identifies newly installed Cisco 7600 series internet routers and their hardware configuration
- Access to maps that are automatically created by the management system to show the exact representation of Cisco 7600 series internet routers components
- SNMP alarms presented as color-coded icons on network maps
- Access to fault, configuration, accounting, performance, and security (FCAPS) functionality (supported through SNMP and Cisco IOS or Catalyst OS software) through GUIs that you can operate without SNMP or Cisco IOS or Catalyst OS software expertise

- Many operations can be performed to several Cisco 7600 series internet routers, simplifying the management of a large deployment of multiple switches
- Event browser or performance manager provide historical information analysis
- Configuration of Ethernet, PoS, ATM, and Sonet modules
- Configuration management, including backup and restore operations
- Software-download management

Supported Hardware

The following table lists hardware supported by the Cisco 7600 Router Manager, release 3.2.

Table 1-1 Supported Hardware

Part Number	Description
OSR-7603	3-slot Cisco 7600 series chassis
OSR-7606	6-slot Cisco 7600 series chassis
OSR-7609	9-slot Cisco 7600 series chassis
WS-CAC-1000W	1000W AC power supply
WS-CAC-1300W	1300W AC power supply
WS-CAC-2500W	2500W AC power supply
WS-CAC-4000W	4000W AC power supply
WS-CDC-1300W	1300W DC power supply
WS-CDC-2500W	2500W DC power supply
PWR-1900-AC	1900W AC power supply
WS-SUP720, SUP720	CEF720 SUP engine- integrated fabric, MSFC3
WS-X6K-SUP1-NOMSFC	Supervisor Engine 1 without MSFC
WS-X6K-SUP1A-MSFC	Supervisor Engine 1A with MSFC
WS-X6K-S1A-MSFC2	Supervisor Engine 1A with MSFC2
WS-X6K-S2-MSFC2	Supervisor Engine 2 with MSFC2
WS-X6K-S2U-MSFC2	Supervisor Engine 2 with 256 MB DRAM and MSFC2
WS-X6066-SLB-APC	Content Switching Module
WS-X6182-2PA	FlexWAN Module
WS-X6224-100FX-MT	24-port 100FX, MT-RJ
WS-X6324-100FX-MM	24-port 100FX, MT-RJ, multimode fiber, 128K per port pac
WS-X6324-100FX-SM	24-port 100FX, MT-RJ, single-mode fiber, 128K per port pa
WS-X6324-100FX-SM	48-port 10/100TX, RJ-45
WS-X6248-TEL	48-port 10/100TX, RJ-21

Table 1-1 Supported Hardware (continued)

Part Number	Description
WS-X6248A-TEL	48-port 10/100TX, RJ-21, 128K per port packet buffers
WS-X6348-RJ-45	48-port 10/100TX, RJ-45, 128K per port packet buffers
WS-X6348-RJ45V	48-port 10/100TX, RJ-45, 128K per port packet buffers with
WS-X6348-RJ21	48-port 10/100, RJ-21, upgradable to voice
WS-X6348-RJ21V	48-port 10/100, RJ-21, inline power
WS-X6524-100FX-MM	Fabric-enabled 100FX Fast Ethernet Module, multimode fib
WS-X6548-RJ-21	Fabric-enabled 10/100 Fast Ethernet Modules, RJ-21
WS-X6548-RJ-45	Fabric-enabled 10/100 Fast Ethernet Modules, RJ-45
WS-X6408-GBIC	8-port Gigabit Ethernet
WS-X6408A-GBIC	8-port Gigabit Ethernet with enhanced QoS
WS-X6416-GBIC	16-port Gigabit Ethernet
WS-X6416-GE-MT	16-port Gigabit Ethernet, MT-RJ
WS-X6516-GBIC	16-port Gigabit Ethernet, single fabric-enabled connection
WS-X6816-GBIC	16-port Gigabit Ethernet, dual fabric-enabled with Distribut Forwarding, (Req GBICs)
WS-X6316-GE-TX	16-port Gigabit Ethernet, RJ-45
WS-X6501-10GEX4	One-port 10GBASE-EX4 Metro Extended Reach 10 Gigabit Module (single-mode fiber)
WS-X6502-10GE	1-port 10GBASE-LR Serial 130nm Long Haul 10 Gigabit E module (WS-G6488 installed)
WS-X6516-GE-TX	16-port Gigabit Ethernet, RJ-45, x-bar
WS-X6066-SLB-APC	Server Load Balancing Module
WS-C6500-SFM	Switch Fabric Module
WS-6500-SFM2	Switch Fabric Module, version 2
WS-G5484	1000BASE-SX Short Wavelength GBIC (Multimode only)
WS-G5486	1000BASE-LX/LH long haul GBIC (singlemode or multimode)
WS-G5487	1000Base-ZX extended reach GBIC (singlemode)
WS-G5483	1000BASE-T GBIC

Table 1-1 Supported Hardware (continued)

Part Number	Description
OSM-4GE-WAN-GBIC	4-port Gigabit Ethernet Optical Services Module, GBIC
OSM-4OC12-POS-MM	4-port OC-12/STM-4 SONET/SDH OSM, MM, with 4 ports Ethernet
OSM-4OC12-POS-SI	4-port OC-12/STM-4 SONET/SDH OSM, SM-IR, with 4 ports Gigabit Ethernet
OSM-4OC12-POS-SI+	Enhanced 4-port OC-12/STM-4 SONET/SDH OSM, SM-IR
OSM-4OC12-POS-SL	4-port OC-12/STM-4 SONET/SDH OSM, SM-LR, with 4 ports Gigabit Ethernet
OSM-1OC48-POS-SS	1-port OC-48/STM-16 SONET/SDH OSM, SM-SR, with 4 ports Gigabit Ethernet
OSM-1OC48-POS-SS+	Enhanced 1-port OC-48/STM-16 SONET/SDH OSM, SM-S
OSM-1OC48-POS-SI	1-port OC-48/STM-16 SONET/SDH OSM, SM-IR, with 4 ports Gigabit Ethernet
OSM-1OC48-POS-SI+	Enhanced 1-port OC-48/STM-16 SONET/SDH OSM, SM-I
OSM-4OC3-POS-SI	4-port OC-3/STM-1 SONET/SDH OSM, with 4 GE
OSM-4OC3-POS-SI+	Enhanced 4-port OC-3/STM-1 SONET/SDH SM-IR OSM,
OSM-1OC48-POS-SL+	Enhanced 1-port OC-48/STM-16 SONET/SDH OSM, SM-I
OSM-8OC3-POS-SI+	Enhanced 8-port OC-3/STM-1 SONET/SDH SM-IR OSM,
OSM-16OC3-POS-SI+	Enhanced 16-port OC-3/STM-1 SONET/SDH OSM, SM-IR
OSM-2OC12-POS-MM+	Enhanced 2-port OC-12/STM-4 SONET/SDH OSM, MM, v
OSM-2OC12-POS-SI+	Enhanced 2-port OC-12/STM-4 SONET/SDH OSM, SM-IR
OSM-4OC12-POS-SI+	Enhanced 4-port OC-12/STM-4 SONET/SDH OSM, SM-IR
OSM-1OC48-POS-SS+	Enhanced 1-port OC-48/STM-16 SONET/SDH OSM, SM-S
OSM-1OC48-POS-SI+	Enhanced 1-port OC-48/STM-16 SONET/SDH OSM, SM-I
OSM-2OC48/1DPT-SS	2-port OC-48/STM-16 POS/DPT OSM, SM-SR, with 4 GE
OSM-2OC48/1DPT-SL	2-port OC-48/STM-16 POS/DPT OSM, SM-LR, with 4 GE
OSM-2OC48/1DPT-SI	2-port OC-48/STM-16 POS/DPT OSM, SM-IR, with 4 GE
OSM-2CHOC12/T3-SI	2-port CHOC-12/CHSTM-4 OSM, to T3/E3, SM-IR, with 4

Table 1-1 Supported Hardware (continued)

Part Number	Description
OSM-2CHOC48/T3-SS	2-port CHOC-48/CHSTM-16 OSM, to T3/E3, SM-SR, with 4 Gigabit Ethernet
OSM-1OC48-POS-SL	1-port OC-48/STM-16 SONET/SDH OSM, SM-LR, with 4 Gigabit Ethernet
OSM-16OC3-POS-MM	16-port OC-3/STM-1 SONET/SDH OSM, MM, with 4 ports of Gigabit Ethernet
OSM-16OC3-POS-SI	16-port OC-3/STM-1 SONET/SDH OSM, SM-IR, with 4 ports of Gigabit Ethernet
OSM-16OC3-POS-SL	16-port OC-3/STM-1 SONET/SDH OSM, SM-LR, with 4 ports of Gigabit Ethernet
OSM-2OC12-POS-MM	2-port OC-12/STM-4 SONET/SDH OSM, MM, with 4 ports of Gigabit Ethernet
OSM-2OC12-POS-MM+	Enhanced 2-port OC-12/STM-4 SONET/SDH OSM, MM, with 4 ports of Gigabit Ethernet
OSM-2OC12-POS-SI	2-port OC-12/STM-4 SONET/SDH OSM, SM-IR, with 4 ports of Gigabit Ethernet
OSM-2OC12-POS-SI+	Enhanced 2-port OC-12/STM-4 SONET/SDH OSM, SM-IR, with 4 ports of Gigabit Ethernet
OSM-2OC12-POS-SL	2-port OC-12/STM-4 SONET/SDH OSM, SM-LR, with 4 ports of Gigabit Ethernet
OSM-8OC3-POS-MM	8-port OC-3/STM-1 SONET/SDH OSM, MM, with 4 ports of Gigabit Ethernet
OSM-8OC3-POS-SI	8-port OC-3/STM-1 SONET/SDH OSM, SM-IR, with 4 ports of Gigabit Ethernet
OSM-8OC3-POS-SL+	Enhanced 8-port OC-3/STM-1 SONET/SDH SM-LR OSM, with 4 ports of Gigabit Ethernet
OSM-8OC3-POS-SL	8-port OC-3/STM-1 SONET/SDH OSM, SM-LR, with 4 ports of Gigabit Ethernet
OSM-1CHOC12/T3-SI	1-port CHOC-12/CHSTM-4 OSM, to T3/E3, SM-IR, with 4 Gigabit Ethernet
OSM-1CHOC48/T3-SS	1-port channelized OC48 OSM, SM-SR, with 4 Gigabit Ethernet
OSM-1CHOC48/T3-SI	1-port channelized OC48 OSM, SM-IR, with 4 Gigabit Ethernet
OSM-2CHOC48/T3-SS	2-port channelized OC48 OSM, SM-SR, with 4 ports of Gigabit Ethernet
OSM-2CHOC48/T3-SI	2-port channelized OC-48 OSM, SM-IR, with 4 ports of Gigabit Ethernet
OSM-4CHOC12/T3-MM	4-port channelized OC-12 OSM, MM, with 4 ports of Gigabit Ethernet

Table 1-1 Supported Hardware (continued)

Part Number	Description
OSM-4CHOC12/T3-SI	4-port channelized OC-12 OSM, SI, with 4 ports of Gigabit Ethernet
OSM-8CHOC12/T3-MM	8-port channelized OC-12 OSM, MM, with 4 ports of Gigabit Ethernet
OSM-8CHOC12/T3-SI	8-port channelized OC-12 OSM, SI, with 4 ports of Gigabit Ethernet
PA-2E3	2 Port E3 Serial Port Adapter with E3 DSUs
PA-2H	2-Port HSSI Port Adapter
PA-2T3	2 Port T3 Serial Port Adapter
PA-2T3+	2 Port T3 Serial Port Adapter Enhanced
PA-4T+	4 Port Serial Port Adapter, Enhanced
PA-8T-232	8-Port Serial, 232 Port Adapter
PA-8T-V35	8-Port Serial, V.35 Port Adapter
PA-8T-X21	8-Port Serial, X.21 Port Adapter
PA-A3-E3	1-Port ATM Enhanced E3 Port Adapter
PA-A3-OC3MM	1-Port ATM Enhanced OC3c/STM1 Multimode Port Adapter
PA-A3-OC3SMI	1-Port ATM Enhanced OC3c/STM1 Singlemode (IR) Port Adapter
PA-A3-OC3SML	1-Port ATM Enhanced OC3c/STM1 Singlemode (LR) Port Adapter
PA-A3-T3	1-Port ATM Enhanced DS3 Port Adapter
PA-E3	1 Port E3 Serial Port Adapter with E3 DSU
PA-H	1-Port HSSI Port Adapter
PA-MC-2T3+	2 port multichannel T3 port adapter
PA-MC-8E1/120	8 port multichannel E1 port adapter with G.703 120ohm interface
PA-MC-8T1	8 port multichannel T1 port adapter with integrated CSU/DSU
PA-MC-E3	1 port Multi-Channel E3 port adapter
PA-MC-T3	1 port multichannel T3 port adapter
PA-POS-OC3MM	1-Port Packet/SONET OC3c/STM1 Multimode Port Adapter
PA-POS-OC3SMI	1-Port Packet/SONET OC3c/STM1 Singlemode (IR) Port Adapter
PA-POS-OC3SML	1-Port Packet/SONET OC3c/STM1 Singlemode (LR) Port Adapter
PA-T3	1 Port T3 Serial Port Adapter

Table 1-1 Supported Hardware (continued)

Part Number	Description
PA-T3+	1 Port T3 Serial Port Adapter Enhanced
PA-A3-8E1IMA	8-port ATM Inverse Mux E1 (120 Ohm) Port Adapter
PA-MC-4T1	4 port multichannel T1 port adapter with integrated CSU/DSU
GE-WAN2	2-port Gigabit Ethernet

Supported Software

The Cisco 7600 Router Manager 3.2 supports the following IOS software.

- Cisco 7603 and 7609 router—12.1(12c)E5 , 12.1(13)E4, 12.2(17a)SX10, and 12.1(19)E1
- Cisco 7609 router—12.1(12c)E4, 12.2(17b)SXA, and 12.1(19)E1

**Note**

The above versions of IOS have been extensively tested with the Cisco 7600 Router Manager software. Other versions IOS should interoperate with the manager, although there may be unanticipated incompatibilities or errors.